

Claims

- [c1] A chewing gum base comprising high molecular weight polyisobutylene, wherein said chewing gum base is essentially free of non-silica filler.
- [c2] The chewing gum base of claim 1, further comprising amorphous silica.
- [c3] The chewing gum base of claim 1, further comprising low molecular weight polyvinylacetate.
- [c4] The chewing gum base of claim 2, further comprising low molecular weight polyvinylacetate.
- [c5] The chewing gum base of claim 1, wherein said high molecular weight polyisobutylene has an average molecular weight from about 200,000 daltons to about 600,000 daltons.
- [c6] The chewing gum base of claim 1, wherein said high molecular weight polyisobutylene has an average molecular weight of about 400,000 daltons.
- [c7] The chewing gum base of claim 1, wherein said high molecular weight polyisobutylene is present in an amount ranging from about 5% to about 15% by weight

of the chewing gum base.

- [c8] The chewing gum base of claim 1, wherein said high molecular weight polyisobutylene is present in an amount of about 8% by weight of the chewing gum base.
- [c9] The chewing gum base of claim 1, further comprising a non-silica filler up to about 3% by weight of the chewing gum base.
- [c10] The chewing gum base of claim 2, wherein said amorphous silica is present in amounts ranging from about 2% to about 15%.
- [c11] The chewing gum base of claim 2, wherein said amorphous silica is present at a level of about 5%.
- [c12] The chewing gum base of claim 3, wherein said low molecular weight polyvinylacetate has an average molecular weight of about 6,000 daltons to about 40,000 daltons.
- [c13] The chewing gum base of claim 3, wherein said low molecular weight polyvinylacetate has an average molecular weight of about 12,000 daltons to about 15,000 daltons.
- [c14] The chewing gum base of claim 3, wherein said low molecular weight polyvinylacetate is present in an

amount up to about 45% by weight of said chewing gum base.

[c15] The chewing gum base of claim 3, wherein said low molecular weight polyvinylacetate is present in an amount ranging from about 25% to about 40% by weight of the chewing gum base.

[c16] The chewing gum base of claim 4, wherein said low molecular weight polyvinylacetate has an average molecular weight of about 6,000 daltons to about 40,000 daltons.

[c17] The chewing gum base of claim 4, wherein said low molecular weight polyvinylacetate has an average molecular weight of about 12,000 daltons to about 15,000 daltons.

[c18] The chewing gum base of claim 4, wherein said low molecular weight polyvinylacetate is present in an amount up to about 45% by weight of said chewing gum base.

[c19] The chewing gum base of claim 4, wherein said low molecular weight polyvinylacetate is present in an amount ranging from about 25% to about 40% by weight of the chewing gum base.

- [c20] The chewing gum base of claim 3, further comprising a terpene resin.
- [c21] The chewing gum base of claim 3, wherein said gum base is free of ester gums.
- [c22] The chewing gum base of claim 4, further comprising a terpene resin.
- [c23] The chewing gum base of claim 4, wherein said gum base is free of ester gums.
- [c24] A chewing gum composition comprising:
- a.) a flavor,
 - b.) a sweetener, and
 - c.) a gum base comprising high molecular weight polyisobutylene, amorphous silica, and low molecular weight polyvinylacetate, wherein said gum base is essentially free of non-silica filler.
- [c25] The chewing gum composition of claim 24, further comprising powdered lecithin.
- [c26] The chewing gum composition of claim 25, wherein said powdered lecithin is present in an amount ranging from about 3% to about 9% by weight of the chewing gum composition.
- [c27] The chewing gum composition of claim 25, wherein said

powdered lecithin is present in an amount ranging from about 4% to about 7% by weight of the chewing gum composition.

[c28] The chewing gum composition of claim 24, further comprising spray dried flavor.

[c29] The chewing gum composition of claim 28, wherein said spray dried flavor is present in an amount up to 2% by weight of the chewing gum composition.

[c30] The chewing gum composition of claim 28, wherein said spray dried flavor is present in an amount ranging from about 0.2% to about 2% by weight of the chewing gum composition.

[c31] The chewing gum composition of claim 25, further comprising spray dried flavor.

[c32] The chewing gum composition of claim 31, wherein said spray dried flavor is present in an amount ranging from about 0.2% to about 2% by weight of the chewing gum composition.

[c33] A chewing gum comprising
a.) a flavor,
b.) a sweetener, and
c.) a gum base comprising high molecular weight poly-

isobutylene, wherein said gum base is essentially free of non-silica filler.

[c34] The chewing gum composition of claim 33, wherein said chewing gum base further comprises amorphous silica.

[c35] The chewing gum composition of claim 33, wherein said chewing gum base further comprises low molecular weight polyvinylacetate.

[c36] The chewing gum composition of claim 34, wherein said chewing gum base further comprises low molecular weight polyvinylacetate.

[c37] The chewing gum composition of claim 33, wherein said high molecular weight polyisobutylene has an average molecular weight from about 200,000 daltons to about 600,000 daltons.

[c38] The chewing gum composition of claim 33, wherein said high molecular weight polyisobutylene has an average molecular weight of about 400,000 daltons.

[c39] The chewing gum composition of claim 33, wherein said high molecular weight polyisobutylene is present in an amount ranging from about 5% to about 15% by weight of the chewing gum base.

[c40] The chewing gum composition of claim 33, wherein said

high molecular weight polyisobutylene is present in an amount of about 8% by weight of the chewing gum base

[c41] The chewing gum composition of claim 34, wherein said amorphous silica is present in amounts ranging from about 2% to about 15% by weight of said chewing gum base.

[c42] The chewing gum composition of claim 34, wherein said amorphous silica is present at a level of about 5% by weight of said chewing gum base.

[c43] The chewing gum composition of claim 35, wherein said low molecular weight polyvinylacetate has an average molecular weight of about 6,000 daltons to about 40,000 daltons.

[c44] The chewing gum composition of claim 35, wherein said low molecular weight polyvinylacetate has an average molecular weight of about 12,000 daltons to about 15,000 daltons.

[c45] The chewing gum composition of claim 35, wherein said low molecular weight polyvinylacetate is present in an amount up to about 45% by weight of said chewing gum base.

[c46] The chewing gum composition of claim 35, wherein said

low molecular weight polyvinylacetate is present in an amount ranging from about 25% to about 40% by weight of said chewing gum base.

[c47] The chewing gum composition of claim 36, wherein said low molecular weight polyvinylacetate has an average molecular weight of about 6,000 daltons to about 40,000 daltons.

[c48] The chewing gum composition of claim 36, wherein said low molecular weight polyvinylacetate has an average molecular weight of about 12,000 daltons to about 15,000 daltons.

[c49] The chewing gum composition of claim 36, wherein said low molecular weight polyvinylacetate is present in an amount up to about 45% by weight of said chewing gum base.

[c50] The chewing gum composition of claim 36, wherein said low molecular weight polyvinylacetate is present in an amount ranging from about 25% to about 40% by weight of said chewing gum base.

[c51] The chewing gum composition of claim 35, wherein said chewing gum base further comprises a terpene resin.

[c52] The chewing gum composition of claim 36, wherein said

chewing gum base further comprises a terpene resin.

[c53] The chewing gum composition of claim 33, further comprising spray dried flavor.

[c54] The chewing gum composition of claim 53, wherein said spray dried flavor is present in an amount ranging from about 0.2% to about 2% by weight of the chewing gum composition.

[c55] The chewing gum composition of claim 34, further comprising spray dried flavor.

[c56] The chewing gum composition of claim 55, wherein said spray dried flavor is present in an amount ranging from about 0.2% to about 2% by weight of the chewing gum composition.

[c57] The chewing gum composition of claim 35, further comprising spray dried flavor.

[c58] The chewing gum composition of claim 57, wherein said spray dried flavor is present in an amount ranging from about 0.2% to about 2% by weight of the chewing gum composition.

[c59] The chewing gum composition of claim 36, further comprising spray dried flavor.

[c60] The chewing gum composition of claim 59, wherein said spray dried flavor is present in an amount ranging from about 0.2% to about 2% by weight of the chewing gum composition.

[c61] The chewing gum composition of claim 33, wherein said chewing gum base is present in an amount ranging from about 15% to about 30% by weight of the chewing gum composition.

[c62] The chewing gum composition of claim 33, wherein said chewing gum base is present in an amount ranging from about 25% to about 28% by weight of the chewing gum composition.

[c63] The chewing gum composition of claim 33, further comprising powdered lecithin.

[c64] The chewing gum composition of claim 63, wherein said powdered lecithin is present in an amount ranging from about 3% to about 9% by weight of the chewing gum composition.

[c65] The chewing gum composition of claim 63, wherein said powdered lecithin is present in an amount ranging from about 4% to about 7% by weight of the chewing gum composition.

- [c66] The chewing gum composition of claim 34, further comprising powdered lecithin.
- [c67] The chewing gum composition of claim 66, wherein said powdered lecithin is present in an amount ranging from about 3% to about 9% by weight of the chewing gum composition.
- [c68] The chewing gum composition of claim 66, wherein said powdered lecithin is present in an amount ranging from about 4% to about 7% by weight of the chewing gum composition.
- [c69] The chewing gum composition of claim 36, further comprising powdered lecithin.
- [c70] The chewing gum composition of claim 69, wherein said powdered lecithin is present in an amount ranging from about 3% to about 9% by weight of the chewing gum composition.
- [c71] The chewing gum composition of claim 69, wherein said powdered lecithin is present in an amount ranging from about 4% to about 7% by weight of the chewing gum composition.
- [c72] The chewing gum composition of claim 63, wherein said powdered lecithin is encapsulated.

- [c73] The chewing gum composition of claim 66, wherein said powdered lecithin is encapsulated.
- [c74] The chewing gum composition of claim 69, wherein said powdered lecithin is encapsulated.
- [c75] The chewing gum composition of claim 33, further comprising active agents selected from the group consisting of acidulants, antimicrobials, tooth whitening agents, medicaments, pharmaceutical agents, nutritional supplements, wellness agents, weight loss agents, breath freshening agents and combinations thereof.
- [c76] The chewing gum composition of claim 33, further comprising components selected from the group consisting of bulk sweeteners, coolants, glycerin, colors, high intensity sweeteners, oral sensates, fats, oils, and combinations thereof.
- [c77] The chewing gum composition of claim 36, wherein a chewed cud of said chewing gum composition is capable of being washed away with water if said chewed cud is adhered to:
- a.) concrete,
 - b.) a paved surface, or
 - c.) a hard environmental surface.

- [c78] The chewing gum composition of claim 36, wherein said chewing gum composition exhibits reduced adhesion to environmental surfaces, after chewing, compared to conventional chewing gum.
- [c79] The chewing gum composition of claim 36, wherein after having been chewed, the remaining chewing gum cud exhibits reduced adhesion to environmental surfaces compared to conventional chewing gum cuds.
- [c80] The chewing gum composition of claim 36, wherein the shape of said chewing gum is selected from the group consisting of stick, pellet, ball, square, and cube.
- [c81] The chewing gum composition of claim 36, wherein said chewing gum is in the shape of a pellet.
- [c82] The chewing gum product comprising the chewing gum pellet of claim 81, wherein said pellet is coated with a coating from about 31% to about 36% by weight of the product.
- [c83] A chewing gum composition comprising:
- a.) a flavor,
 - b.) a sweetener, and
 - c.) a gum base comprising high molecular weight polyisobutylene, amorphous silica, and low molecular weight polyvinylacetate, wherein said gum base is free of non-

silica filler.